

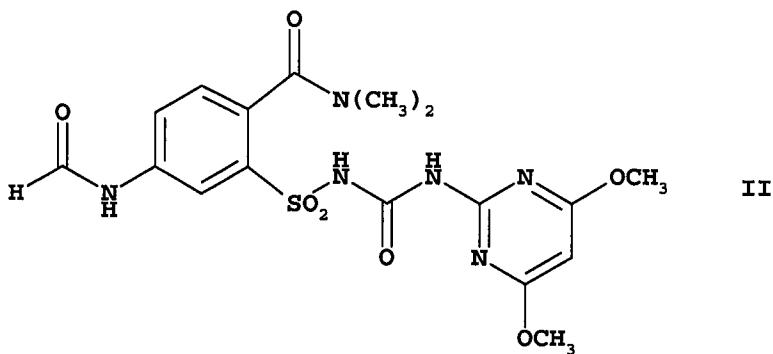
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-33 (Cancelled)

34. (New) A synergistic herbicidal mixture comprising
- A) 4-[2-methyl-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole or one of its environmentally compatible salts;
- and
- B) a synergistically effective amount of the compound of formula II



or one of its environmentally compatible salts.

35. (New) A synergistic herbicidal mixture as claimed in claim 34, further comprising component C

C) at least one herbicidal compound from the group of the acetyl-CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors, photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicides.

36. (New) A synergistic herbicidal mixture as claimed in claim 35 comprising, as component C), at least one herbicidal compound from the groups C1 to C16:

C1 acetyl-CoA carboxylase inhibitors (ACC):

cyclohexenone oxime ethers, phenoxyphenoxypropionic esters or arylaminopropionic acids;

C2 acetolactate synthase inhibitors (ALS):

imidazolinones, pyrimidyl ethers, sulfonamides or sulfonylureas;

C3 amides;

C4 auxin herbicides:

pyridinecarboxylic acids, 2,4-D or benazolin;

- C5 auxin transport inhibitors;
- C6 carotenoid biosynthesis inhibitors;
- C7 enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS);
- C8 glutamine synthetase inhibitors;
- C9 lipid biosynthesis inhibitors:  
anilides, chloroacetanilides, thioureas, benfuresate or perfluidone;
- C10 mitosis inhibitors:  
carbamates, dinitroanilines, pyridines, butamifos, chlorthal-dimethyl (DCPA) or  
maleic hydrazide;
- C11 protoporphyrinogen IX oxidase inhibitors:  
diphenyl ethers, oxadiazoles, cyclic imides or pyrazoles;
- C12 photosynthesis inhibitors:  
propanil, pyridate, pyridafol, benzothiadiazinones, dinitrophenols,  
dipyridylenes, ureas, phenols, chloridazon, triazines, triazinones, uracils or  
biscarbamates;
- C13 synergists:  
oxiranes;
- C14 growth substances:  
aryloxyalkanoic acids, benzoic acids or quinolinecarboxylic acids;
- C15 cell wall synthesis inhibitors;
- C16 various other herbicides:

dichloropropionic acids, dihydrobenzofurans, phenylacetic acids or aziprotryn, barban, bensulide, benzthiazuron, benzofluor, buminafos, buthidazole, buturon, cafenstrole, chlorbufam, chlorofenprop-methyl, chloroxuron, cinmethylin, cumyluron, cycluron, cyprazine, cyprazole, dibenzyluron, dipropetryn, dymron, eglinazin-ethyl, endothall, ethiozin, flucabazone, fluorbentranil, flupoxam, isocarbamid, isopropalin, karbutilate, mefluidide, monuron, napropamide, napropanilide, nitratin, oxaciclomefone, phenisopham, piperophos, procyazine, profluralin, pyributicarb, secbumeton, sulfallate (CDEC), terbucarb, triazofenamide, triaziflam or trimeturon; or their environmentally compatible salts.

37. (New) A synergistic herbicidal mixture as claimed in claim 35, comprising, as component C), at least one herbicidal compound from the groups C1 to C16:

C1 acetyl-CoA carboxylase inhibitors (ACC):

- cyclohexenone oxime ethers:  
alloxydim, clethodim, cloproxydim, cycloxydim, sethoxydim, tralkoxydim, butroxydim, clefoxydim or tepraloxym;
- phenoxyphenoxypropionic esters:  
clodinafop-propargyl (and, if appropriate, cloquintocet), cyhalofop-butyl, diclofop-methyl, fenoxaprop-ethyl, fenoxaprop-P-ethyl, fenthiapropethyl, fluazifop-butyl, fluazifop-P-butyl, haloxyfop-ethoxyethyl, haloxyfop-

methyl, haloxyfop-P-methyl, isoxapyrifop, propaquizafop, quizalofop-ethyl, quizalofop-P-ethyl or quizalofop-tefuryl; or

- arylaminopropionic acids:  
flamprop-methyl or flamprop-isopropyl;

C2 acetolactate synthase inhibitors (ALS):

- imidazolinones:  
imazapyr, imazaquin, imazamethabenz-methyl (imazame), imazamoc, imazapic, imazethapyr or imazamethapyr;
- pyrimidyl ethers:  
pyrithiobac-acid, pyrithiobac-sodium, bispyribac-sodium, KIH-6127 or pyribenzoxym;
- sulfonamides:  
florasulam, flumetsulam or metosulam; or
- sulfonylureas:  
amidosulfuron, azimsulfuron, bensulfuron-methyl, chlorimuron-ethyl, chlorsulfuron, cinosulfuron, cyclosulfamuron, ethametsulfuron-methyl, ethoxysulfuron, flazasulfuron, halosulfuron-methyl, imazosulfuron, metsulfuron-methyl, nicosulfuron, primisulfuron-methyl, prosulfuron, pyrazosulfuron-ethyl, rimsulfuron, sulfometuron-methyl, thifensulfuron-methyl, triasulfuron, tribenuron-methyl, triflusulfuron-methyl, N-[[[4-

methoxy-6-(trifluoromethyl)-1,3,5-triazin-2-yl]amino]-carbonyl]-2-(trifluoromethyl)-benzenesulfonamide, sulfosulfuron or iodosulfuron;

C3 amides:

- allidochlor (CDAA), benzoylprop-ethyl, bromobutide, chlorthiamid, diphenamid, etobenzanid (benzchlomet), fluthiamide, fosamin or monalide;

C4 auxin herbicides:

- pyridine carboxylic acids:
- clopyralid or picloram; or
- 2,4-D or benazolin;

C5 auxin transport inhibitors:

- naptalame or diflufenzopyr;

C6 carotenoid biosynthesis inhibitors:

- benzofenap, clomazone (dimethazone), diflufenican, fluorochloridone, fluridone, pyrazolynate, pyrazoxyfen, isoxaflutole, isoxachlortole, mesotrione, sulcotrione (chlormesulone), ketospiradox, flurtamone, norflurazon or amitrol;

C7 enolpyruvylshikimate-3-phosphate synthase inhibitors (EPSPS):

- glyphosate or sulfosate;

C8 glutamine synthetase inhibitors:

- bilanafos (bialaphos) or glufosinate-ammonium;

C9 lipid biosynthesis inhibitors:

- anilides:  
anilofos or mefenacet;
- chloroacetanilides:  
dimethenamid, S-dimethenamid, acetochlor, alachlor, butachlor,  
butenachlor, diethatyl-ethyl, dimethachlor, metazachlor, metolachlor, S-  
metolachlor, pretilachlor, propachlor, prynachlor, terbuchlor, thenylchlor  
or xylachlor;
- thioureas:  
butylate, cycloate, di-allate, dimepiperate, EPTC, esprocarb, molinate,  
pebulate, prosulfocarb, thiobencarb (benthiocarb), tri-allate or vernolate;  
or
- benfuresate or perfluidone;

C10 mitosis inhibitors:

- carbamates:  
asulam, carbetamid, chlorpropham, orbencarb, pronamid (propyzamid),  
propham or tiocarbazil;
- dinitroanilines:  
benefin, butralin, dinitramin, ethalfluralin, fluchloralin, oryzalin,  
pendimethalin, prodiamine or trifluralin;
- pyridines:

dithiopyr or thiazopyr; or

- butamifos, chlorthal-dimethyl (DCPA) or maleic hydrazide;

C11 protoporphyrinogen IX oxidase inhibitors:

- diphenyl ethers:

acifluorfen, acifluorfen-sodium, aclonifen, bifenox, chlornitrofen (CNP),  
ethoxyfen, fluorodifen, fluoroglycofen-ethyl, fomesafen, furyloxyfen,  
lactofen, nitrofen, nitrofluorfen or oxyfluorfen;

- oxadiazoles:

oxadiargyl or oxadiazon;

- cyclic imides:

azafenidin, butafenacil, carfentrazone-ethyl, cinidon-ethyl, flumiclorac-  
pentyl, flumioxazin, flumipropyn, flupropacil, fluthiacet-methyl,  
sulfentrazone or thidiazimin; or

- pyrazoles:

ET-751, JV 485 or nipyraclufen;

C12 photosynthesis inhibitors:

- propanil, pyridate or pyridafol;

- benzothiadiazinones:

bentazone;

- dinitrophenols:



- bromofenoxim, dinoseb, dinoseb-acetate, dinoterb or DNOC;
- dipyridylenes:  
cyperquat-chloride, difenzoquat-methylsulfate, diquat or paraquat-dichloride;
  - ureas:  
chlorbromuron, chlorotoluron, difenoxuron, dimefuron, diuron, ethidimuron, fenuron, fluometuron, isoproturon, isouron, linuron, methabenzthiazuron, methazole, metobenzuron, metoxuron, monolinuron, neburon, siduron or tebuthiuron;
  - phenols:  
bromoxynil or ioxynil;
  - chloridazon;
  - triazines:  
ametryn, atrazine, cyanazine, desmetryn, dimethamethryn, hexazinone, prometon, prometryn, propazine, simazine, simetryn, terbumeton, terbutryn, terbutylazine or trietazine;
  - triazinones:  
metamitron or metribuzine;
  - uracils:  
bromacil, lenacil or terbacil; or
  - biscarbamates:

desmedipham or phenmedipham;

C13 synergists:

- oxiranes:  
tridiphan;

C14 growth substances:

- aryloxyalkanoic acids:  
2,4-DB, clomeprop, dichlorprop, dichlorprop-P (2,4-DP-P), fluoroxypry,  
MCPA, MCPB, mecoprop, mecoprop-P, or triclopyr;
- benzoic acids:  
chloramben or dicamba; or
- quinolinecarboxylic acids:  
quinclorac or quinmerac;

C15 cell wall synthesis inhibitors:

- isoxaben or dichlobenil;

C16 various other herbicides:

- dichloropropionic acids:  
dalapon;
- dihydrobenzofurans:  
ethofumesate;
- phenylacetic acids:  
chlorfenac (fenac); or

- aziprotryn, barban, bensulide, benzthiazuron, benzo-fluor, buminafos, buthidazole, buturon, cafenstrole, chlorbufam, chlorfenprop-methyl, chloroxuron, cin-methylin, cumyluron, cycluron, cyprazine, cyprazole, dibenzyluron, dipropetryn, dymron, eglinazin-ethyl, endothall, ethiozin, flucabazone, fluorbentranil, flupoxam, isocarbamid, isopropalin, karbutilate, mefluidide, monuron, napropamide, napropanilide, nitralin, oxaciclomefone, phenisopham, piperophos, procyazine, profluralin, pyributicarb, secbumeton, sulfallate (CDEC), terbucarb, triazofenamid, triaziflan or trimeturon;

or their environmentally compatible salts.

38. (New) A synergistic herbicidal mixture as claimed in claim 37, wherein at least one herbicidal compound of component C is from group C2, C6 or C12.
39. (New) A synergistic herbicidal mixture as claimed in claim 36 comprising, as component C), a herbicidal compound from the group C2.
40. (New) A synergistic herbicidal mixture as claimed in claim 36 comprising, as component C), a herbicidal compound from the group C6.

41. (New) A synergistic herbicidal mixture as claimed in claim 35 comprising, as component C), isoxaflutole.
42. (New) A synergistic herbicidal mixture as claimed in claim 36 comprising, as component C), a herbicidal compound from the group C12.
43. (New) A synergistic herbicidal mixture as claimed in claim 37 comprising, as component C), a triazine from group C12.
44. (New) A synergistic herbicidal mixture as claimed in claim 35, comprising, as component C), atrazine.
45. (New) A synergistic herbicidal mixture as claimed in claim 35, comprising, as component C), bentazone.
46. (New) A synergistic herbicidal mixture as claimed in claim 35, comprising, as component C), pyridate.
47. (New) A synergistic herbicidal mixture as claimed in claim 34, further comprising component D

D) a safening effective amount of at least one safener selected from the group consisting of isoxadifen, mefenpyr and fenclorazol.

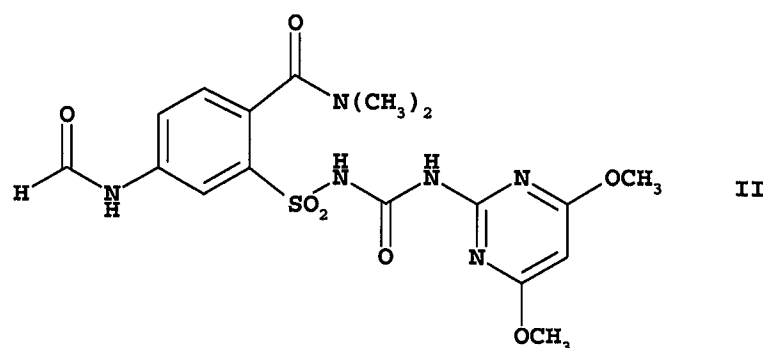
48. (New) A synergistic herbicidal mixture as claimed in claim 47, further comprising, as component C,

C) at least one herbicidal compound selected from the group consisting of acetyl-CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors, photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicide.

49. (New) A synergistic herbicidal mixture as claimed in claim 34, wherein component A) and B) are present in a weight ratio of 1:0.001 to 1:500.

50. (New) A synergistic herbicidal mixture as claimed in claim 35, wherein component A) and component C) are present in a weight ratio of 1:0.002 to 1:800.

51. (New) A synergistic herbicidal mixture as claimed in claim 47, wherein component A) and component D) are present in a weight ratio of 1:0.002 to 1:800.
52. (New) A herbicidal composition comprising a herbicidally active amount of a synergistic herbicidal mixture of claim 59, and at least one inert liquid and/or solid carrier therefor.
53. (New) A process for preparing a herbicidal composition of claim 52, comprising mixing together component A) component B) if desired, component C) if desired, component D), and at least one inert liquid and/or solid carrier therefor.
54. (New) A method of controlling undesired vegetation, comprising applying simultaneously or separately to said vegetation, the environment of said vegetation and/or seeds of said vegetation
- A) 4-[2-methyl-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole.
- or one of its environmentally compatible salts;
- B) a synergistically effective amount of the compound of formula II



or one of its environmentally compatible salts;

and, if desired,

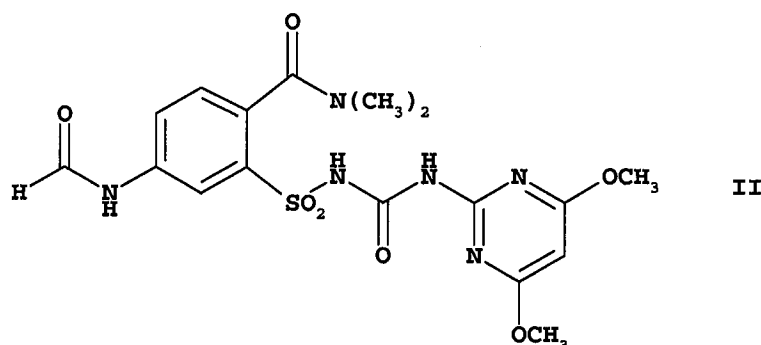
- C) at least one herbicidal compound from the group of the acetyl-CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors, photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicides;

and, if desired,

- D) a safening effective amount of at least one safener selected from the group of isoxadifen, mefenpyr and fenclorazol;  
or an environmentally compatible salt or ester thereof.

55. (New) The method of claim 54, wherein leaves of the undesired vegetation are treated.
56. (New) The method of claim 54, wherein at least two of component A), component B), if desired, component C), and, if desired, component D are applied in the form of a mixture.
57. (New) The method of claim 54, wherein the component A), B), if desired, C) and, if desired, D) are applied separately.
58. (New) The composition of claim 52, wherein the composition further comprises at least one surfactant.
59. (New) A synergistic herbicidal mixture comprising
- A) 4-[2-methyl-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole or one of its environmentally compatible salts;  
or one of its environmentally compatible salts;  
and
- B) a synergistically effective amount of the compound of formula II





or one of its environmentally compatible salts;

and, if desired,

- C) at least one herbicidal compound from the group of the acetyl-CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors, photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicides;

and, if desired,

- D) a safening effective amount of at least one safener selected from the group of isoxadifen, mefenpyr and fenchlorazol;  
or an environmentally compatible salt or ester thereof.